



Certificate of Analysis

Number: 6030-22080366-009A

Artesia Laboratory

200 E Main St.
Artesia, NM 88210
Phone 575-746-3481Brent White
Contango
5847 San Felipe, Suite 3000
Houston, TX 77057

Aug. 25, 2022

Station Name: Horseshoe State CDP
Station Location: Contango
Sample Point: Meter
Instrument: 6030_GC6 (Inficon GC-3000 Micro)
Last Inst. Cal.: 08/22/2022 0:00 AM
Analyzed: 08/25/2022 10:29:38 by KNFSampled By: Gene Rogers
Sample Of: Gas Spot
Sample Date: 08/24/2022
Sample Conditions: 59 psig
Effective Date: 08/24/2022
Method: GPA-2261M
Cylinder No: 1111-002669

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia		
Hydrogen Sulfide	0.000	0.60000	0.920		GPM TOTAL C2+	6.308
Nitrogen	3.081	3.06081	3.859		GPM TOTAL C3+	2.765
Methane	72.763	72.29595	52.193		GPM TOTAL iC5+	0.543
Carbon Dioxide	1.793	1.78138	3.528			
Ethane	13.285	13.19995	17.861	3.543		
Propane	5.737	5.70054	11.312	1.576		
Iso-butane	0.596	0.59217	1.549	0.194		
n-Butane	1.437	1.42787	3.735	0.452		
Iso-pentane	0.297	0.29519	0.958	0.108		
n-Pentane	0.321	0.31874	1.035	0.116		
Hexanes Plus	0.732	0.72740	3.050	0.319		
	100.042	100.00000	100.000	6.308		

Calculated Physical Properties

	Total	C6+
Relative Density Real Gas	0.7699	3.2176
Calculated Molecular Weight	22.22	93.19
Compressibility Factor	0.9962	

GPA 2172 Calculation:

Calculated Gross BTU per ft³ @ 14.73 psia & 60°F

Real Gas Dry BTU	1246	5141
Water Sat. Gas Base BTU	1225	5052
Ideal, Gross HV - Dry at 14.73 psia	1241.6	5141.1
Ideal, Gross HV - Wet	1220.0	5051.6

Comments: H2S Field Content 6000 ppm

Data reviewed by: Krystle Fitzwater, Laboratory Manager

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.

Meter Summary

HORSESHOE STATE CDP, Artesia

Unit	Meter / Date	OP Hrs	Gas (MCF)	Oil/Cond (bbl)	Water (bbl)
HORSESHOE STATE CDP	HORSESHOE STATE CDP Gas MTR		1.00	0.00	0.00
HORSESHOE STATE CDP	HORSESHOE STATE CDP WTR MTR		0.00	0.00	13,780.00
HORSESHOE STATE CDP	TEMP FLARE METER		5,519.00	0.00	0.00

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
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DEFINITIONS

Action 230751

DEFINITIONS

Operator: Contango Resources, LLC 111 E. 5TH STREET FORT WORTH, TX 76102	OGRID: 330447
	Action Number: 230751
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

DEFINITIONS

For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application: • this application's operator, hereinafter "this operator"; • venting and/or flaring, hereinafter "vent or flare"; • any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms"; • the statements in (and/or attached to) this, hereinafter "the statements in this"; • and the past tense will be used in lieu of mixed past/present tense questions and statements.
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QUESTIONS

Action 230751

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	Action Number: 230751
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

QUESTIONS

Prerequisites	
<i>Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.</i>	
Incident Operator	[330447] Contango Resources, LLC
Incident Type	Flare
Incident Status	Closure Not Approved
Incident Well	Unavailable.
Incident Facility	[fAB1833233538] HORSESHOE STATE BATTERY
<i>Only valid Vent, Flare or Vent with Flaring incidents (selected above in the Application Details section) that are assigned to your current operator can be amended with this C-129A application.</i>	

Determination of Reporting Requirements

Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.

Was this vent or flare caused by an emergency or malfunction	Yes
Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event	Yes
Is this considered a submission for a vent or flare event	Yes, major venting and/or flaring of natural gas.
<i>An operator shall file a form C-141 instead of a form C-129 for a release that, includes liquid during venting and/or flaring that is or may be a major or minor release under 19.15.29.7 NMAC.</i>	
Was there at least 50 MCF of natural gas vented and/or flared during this event	Yes
Did this vent or flare result in the release of ANY liquids (not fully and/or completely flared) that reached (or has a chance of reaching) the ground, a surface, a watercourse, or otherwise, with reasonable probability, endanger public health, the environment or fresh water	No
Was the vent or flare within an incorporated municipal boundary or within 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

Equipment Involved

Primary Equipment Involved	Not answered.
Additional details for Equipment Involved. Please specify	Not answered.

Representative Compositional Analysis of Vented or Flared Natural Gas

Please provide the mole percent for the percentage questions in this group.

Methane (CH4) percentage	72
Nitrogen (N2) percentage, if greater than one percent	3
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	2
Oxygen (O2) percentage, if greater than one percent	0
<i>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</i>	
Methane (CH4) percentage quality requirement	Not answered.
Nitrogen (N2) percentage quality requirement	Not answered.
Hydrogen Sulfide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (CO2) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

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QUESTIONS, Page 2

Action 230751

QUESTIONS (continued)

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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	10/19/2022
Time vent or flare was discovered or commenced	08:50 AM
Time vent or flare was terminated	09:58 AM
Cumulative hours during this event	1,753

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Equipment Failure Gas Well Natural Gas Flared Released: 5,519 Mcf Recovered: 0 Mcf Lost: 5,519 Mcf.
Other Released Details	Cause: Other (Specify) Released: 0 (Unknown Released Amount) Recovered: 0 Lost: 0
Additional details for Measured or Estimated Volume(s). Please specify	Not answered.
Is this a gas only submission (i.e. only significant Mcf values reported)	Yes, according to supplied volumes this appears to be a "gas only" report.

Venting or Flaring Resulting from Downstream Activity	
Was this vent or flare a result of downstream activity	Yes
Was notification of downstream activity received by this operator	Yes
Downstream OGRID that should have notified this operator	[224903] FRONTIER FIELD SERVICES, LLC
Date notified of downstream activity requiring this vent or flare	10/19/2022
Time notified of downstream activity requiring this vent or flare	05:41 PM

Steps and Actions to Prevent Waste	
For this event, this operator could not have reasonably anticipated the current event and it was beyond this operator's control	True
Please explain reason for why this event was beyond this operator's control	Fire at plant downstream
Steps taken to limit the duration and magnitude of vent or flare	Duration determined by plant operations
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	unknown

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ACKNOWLEDGMENTS

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ACKNOWLEDGMENTS

☒	I acknowledge that with this application I will be amending an existing incident file (assigned to this operator) for a vent or flare event, pursuant to 19.15.27 and 19.15.28 NMAC.
☒	I acknowledge that amending an incident file does not replace original submitted application(s) or information and understand that any C-129 forms submitted to the OCD will be logged and stored as public record.
☒	I hereby certify the statements in this amending report are true and correct to the best of my knowledge and acknowledge that any false statement may be subject to civil and criminal penalties under the Oil and Gas Act.
☒	I acknowledge that the acceptance of any C-129 forms by the OCD does not relieve this operator of liability should their operations have failed to adequately investigate, report, and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment.
☒	I acknowledge that OCD acceptance of any C-129 forms does not relieve this operator of responsibility for compliance with any other applicable federal, state, or local laws and/or regulations.

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CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
adenner	If the information provided in this report requires further amendment(s), submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	6/21/2023